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CATALYTIC COMPOSITION FOR THE (CO) POLYMERIZATION OF ALPHA-OLEFINS

Abstract

10 Catalytic composition for the (co) polymerization of ethylene and other  $\alpha$ -olefins, including a metallocene complex of a metal M of group 4 of the periodic table or the product obtainable from the same combined with a suitable activator, wherein said metallocene complex includes at  
15 least one cyclopentadienyl group and at least one unsaturated hydrocarbyl organic group bonded to the metal M, having the following formula (I):



wherein:

20 A represents any monomeric unit deriving from a vinylaromatic group polymerizable by means of anionic polymerization, having from 6 to 20 carbon atoms;  
D represents any monomeric unit deriving from a conjugated diolefin polymerizable by means of anionic polymerization, having from 4 to 20 carbon atoms;  
25 U represents any generic optional monomeric unit deriving from an unsaturated compound co-polymerizable with any of the above conjugated diolefins D or vinylaromatic compounds A;  
30  $R^I$  represents hydrogen or a hydrocarbyl group having from 1 to 20 carbon atoms,  
each index "x" and "y" can be independently zero or an integer, provided the sum (x+y) is equal to or higher than 2, preferably between 2 and 50, more preferably  
35 between 2 and 25;  
"z" can be zero or an integer ranging from 1 to 20.